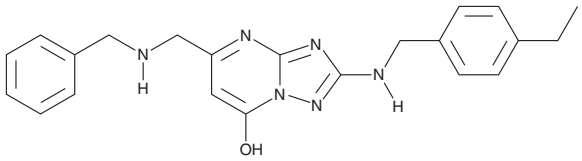
PRODUCT INFORMATION

FDW028

Item No. 39543

CAS Registry No.: 2768426-49-7
Formal Name: 2-[[(4-ethylphenyl)methyl]amino]-5-[[(phenylmethyl)amino]methyl]-[1,2,4]triazolo[1,5-a]pyrimidin-7-ol
MF: $C_{22}H_{24}N_6O$
FW: 388.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

FDW028 is supplied as a solid. A stock solution may be made by dissolving the FDW028 in the solvent of choice, which should be purged with an inert gas. FDW028 is soluble (≥10 mg/ml) in DMSO.

Description

FDW028 is an inhibitor of fucosyltransferase 8 (FUC8).[1] It binds to FUC8 (K_d = 5.486 µM) and inhibits core fucosylation in HCT-8 and SW480 colorectal cancer (CRC) cells. FDW028 (50 µM) induces degradation of B7-H3, also known as CD276, *via* chaperone-mediated autophagy (CMA) in the same cells. *In vivo*, FDW028 (10 and 20 mg/kg) reduces tumor volume and increases survival in an SW480 mouse xenograft model.

Reference

1. Wang, M., Zhang, Z., Chen, M., *et al.* FDW028, a novel FUT8 inhibitor, impels lysosomal proteolysis of B7-H3 via chaperone-mediated autophagy pathway and exhibits potent efficacy against metastatic colorectal cancer. *Cell Death Dis.* **14(8)**, 495 (2023).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM